

Claims

1. Method for mounting a switching module, in which a circuit support (1, 42) is inserted into a basic housing element (10, 35, 44) and the basic housing element (10, 35, 44) is closed with the aid of cover elements (6, 25, 37, 47, 52),

characterized in that

a circuit support (1, 42) is inserted into the basic housing element (10, 35, 44) with its flat sides (63, 64) facing walls (20, 21, 46, 53) of the basic housing element (10, 35, 44) and that

a longitudinally extended pressure strip (26, 49) is inserted between the circuit support (1, 42) and the basic housing element (10, 35, 44), by means of which a compression force acting on a flat side (64) of the circuit support (1, 42) is applied.

2. Method according to Claim 1,

characterized in that the pressure strip (26, 49) configured as a tension spring is charged during insertion of the circuit support (1, 42) and released to fix the circuit support (1, 42) in the basic housing element (10, 44).

3. Method according to Claim 1,

characterized in that the pressure strip (26, 49) configured as a compression spring for fixing the printed circuit board (1, 42) is subject to a pressure (57) that compresses the compression spring.

4. Method according to Claim 3,

characterized in that the pressure (57) is applied by the

cover elements (47, 52) of the basic housing element (44).

5. Method according to one of Claims 1 to 4,
characterized in that the pressure strip (26, 49) is guided by
5 guide means (17, 18, 19, 50) configured on the inside of the
basic housing element (10, 44).

6. Method according to one of Claims 1 to 5,
characterized in that the pressure strip (26, 49) is guided
10 inside the basic housing element (10, 44) by an encapsulated
guide groove (17, 50).

7. Method according to one of Claims 1 to 6,
characterized in that the circuit support (1, 42) is guided by
15 guide elements (16, 18, 19, 36, 45) during insertion into the
basic housing element (10, 35, 44).

8. Method according to Claim 7,
characterized in that the circuit support (1, 42) is fitted
20 with components on both sides before insertion into the basic
housing element (10, 35 44).

9. Method according to one of Claims 1 to 9,
characterized in that a cover element (6, 47) is fixed to the
25 circuit support (1, 42) before insertion of the circuit
support (1, 42) into the basic housing element (10, 35, 44).

10. Method according to Claim 9,
characterized in that contact means (5, 7, 48) configured on
30 the cover element (6, 47) are connected to the circuit support
(1, 42) before insertion of the circuit support (1, 42) into
the basic housing element (10, 35, 44).

11. Method according to one of Claims 1 to 10,
characterized in that the pressure strip (26, 49) is inserted
into the basic housing element (10, 35, 44) together with the
circuit support (1, 42)).

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12. Method according to one of Claims 1 to 11,
characterized in that a cover element (25, 47) provided with
the pressure strip (26, 49) is attached to an opening (15, 43)
in the basic housing element (10, 35, 44).

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13. Method according to one of Claims 1 to 12,
characterized in that the pressure strip (26) is tailored to
the length of the basic housing element (10) at breaking
points (34) before insertion into the basic housing element
(10).

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14. Method according to one of Claims 1 to 13,
characterized in that the pressure strip (26) is held
positively in a recess (33) in an opposite cover element (6).

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15. Method according to one of Claims 1 to 14,
characterized in that a saw-tooth profile (32) is configured
on the pressure strip (26) and is held positively in latch
points on the recess (33).

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16. Method according to Claim 14 or 15,
characterized in that the basic housing element (10, 35) is
clamped between opposite cover elements (6, 25, 37).

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17. Method according to one of Claims 1 to 16,
characterized in that a cover element (37) is fixed to the
circuit support (1) by way of clamping means (39, 40) during
attachment of a cover element (37) to an opening (15) in the

basic housing element (35).

18. Method according to one of Claims 1 to 17,
characterized in that the openings (12, 15) on the transverse
5 sides (11, 14) of the basic housing element (10, 35) are
sealed by means of identical seals (24, 30).

19. Switching module with an electronic component arranged
inside a housing,
10 characterized in that the switching module can be produced
using a method according to at least one of Claims 1 to 18.

20. Pressure strip to produce a switching module,
characterized in that spring elements (27, 61, 62) acting
15 across the longitudinal axis of the pressure strip (26, 49)
are configured along the pressure strip (26, 49).

21. Pressure strip according to Claim 20,
characterized in that lock rings (27, 62) are configured on
20 the pressure strip (26).

22. Pressure strip according to Claim 20,
characterized in that the pressure strip (49) is configured in
a wave shape.

23. Pressure strip according to one of Claims 20 to 22,
characterized in that breaking points (34) are provided along
the pressure strip (26).